

Figure A-42. C-137B, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Boeing

Aircraft Engine Manufacturer Pratt and Whitney (JT3D-3B)

No. of Engines 4 Engine Rating 18,000 lb

Min. T/O Wt. 151.7 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 326.0 k-lb Max. T/O Wt. War-Time 336.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 10,550 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 205.5 k-lb Max. Ldg. Wt. 247.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 2,000 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. †

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Ultra D	High A	Medium B	Low C	Very Low D
206	21	23	29	33	22	26	31	40
247	27	32	38	43	30	34	41	52
326	40	48	57	63	43	48	59	74
336	42	50	59	66	45	50	61	77

Figure A-43. C-137C

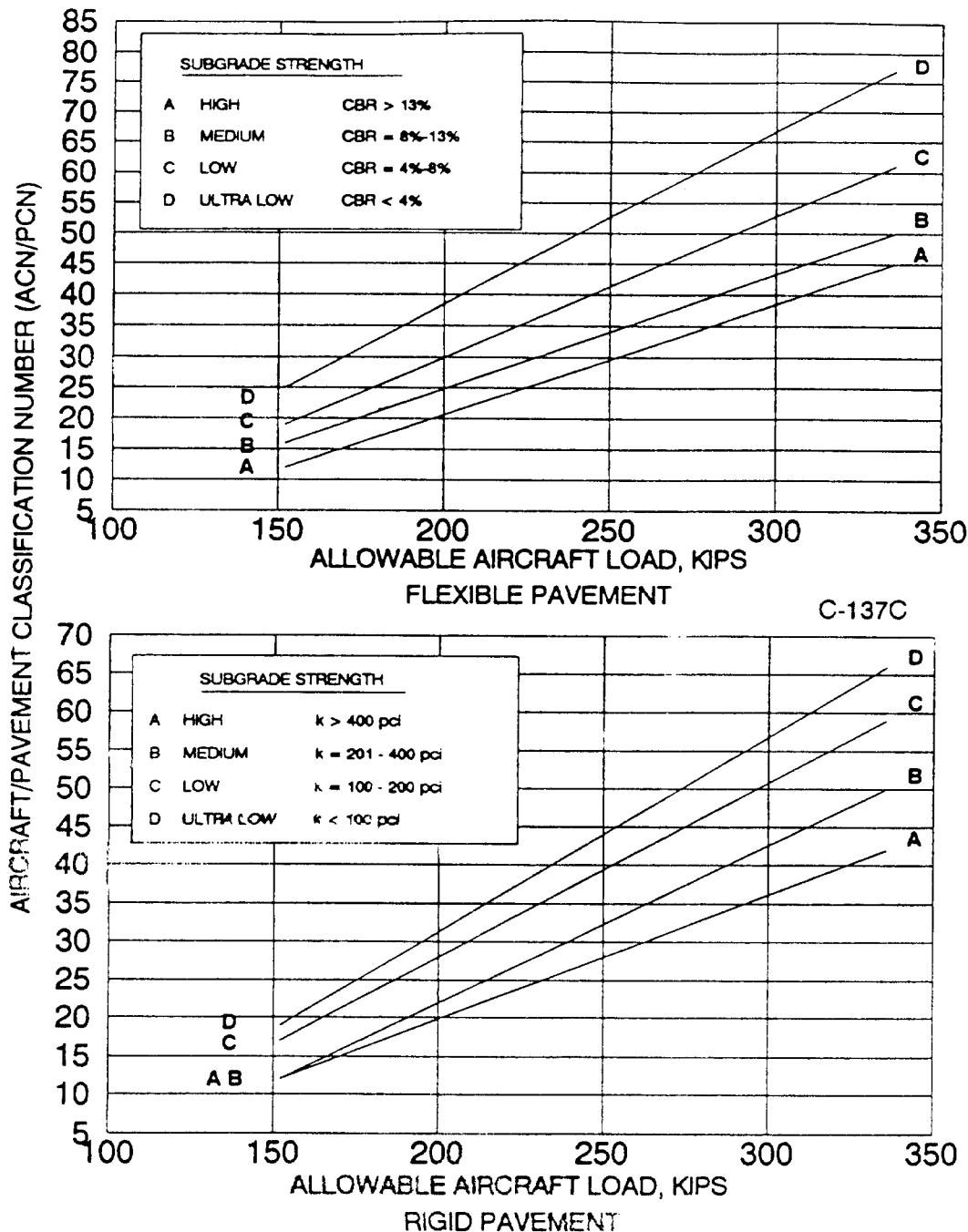


Figure A-44. C-137C, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Lockheed

Aircraft Engine Manufacturer Pratt and Whitney (J60-P-5)

No. of Engines 4 Engine Rating 3,000 lb

Min. T/O Wt. 21.0 k-lb * Min. T/O Dist. @ Min. T/O Wt. 1,200 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 2,600 ft

Max. T/O Wt. Peace-Time 40.9 k-lb Max. T/O Wt. War-Time 40.9 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 3,800 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 3,800 ft

Min. Ldg. Wt. 21.0 k-lb Max. Ldg. Wt. 35.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 1,500 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 2,650 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
					Very			
	High A	Medium B	Low C	Ultra D	High A	Medium B	Low C	Low D
21	4	5	5	5	4	4	5	5
35	9	10	10	10	7	8	8	10
41	11	12	12	12	9	10	10	12

Figure A-45. C-140A/B, Jetstar

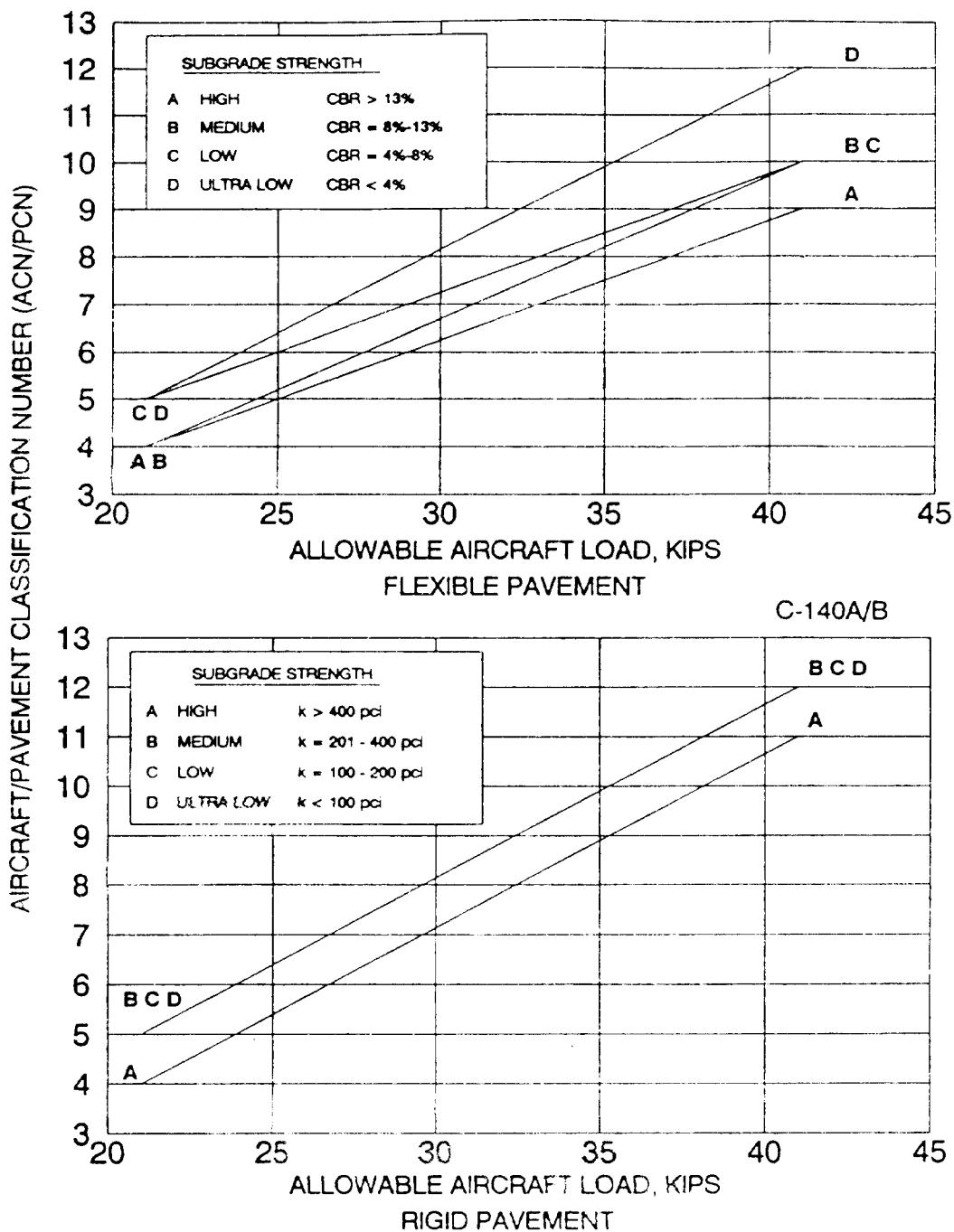


Figure A-46. C-140A/B, ACN/PCN Curves

27 Sep 91

Aircraft Manufacturer LockheedAircraft Engine Manufacturer Pratt and Whitney (TF33-P-7)No. of Engines 4 Engine Rating 20,250 lbMin. T/O Wt. 144.5 k-lb * Min. T/O Dist. @ Min. T/O Wt. 1,300 ft* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 1,800 ftMax. T/O Wt. Peace-Time 325.0 k-lb Max. T/O Wt. War-Time 344.9 k-lb* Min. T/O Dist. @ Max. T/O Wt. War-Time 5,900 ft* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 7,100 ftMin. Ldg. Wt. 145.0 k-lb Max. Ldg. Wt. 323.0 k-lb* Min. Ldg. Dist. @ Min. Ldg. Wt. 1,250 ft* Min. Ldg. Dist. @ Max. Ldg. Wt. 2,550 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High		Medium	Low	High		Medium	Low
	A	B	C	D	A	B	C	D
145	11	14	16	19	13	17	19	26
323	44	53	62	69	47	53	64	79
325	44	54	63	69	47	54	65	79
345	48	58	68	75	51	58	70	85

Figure A-47. C-141B, Starlifter

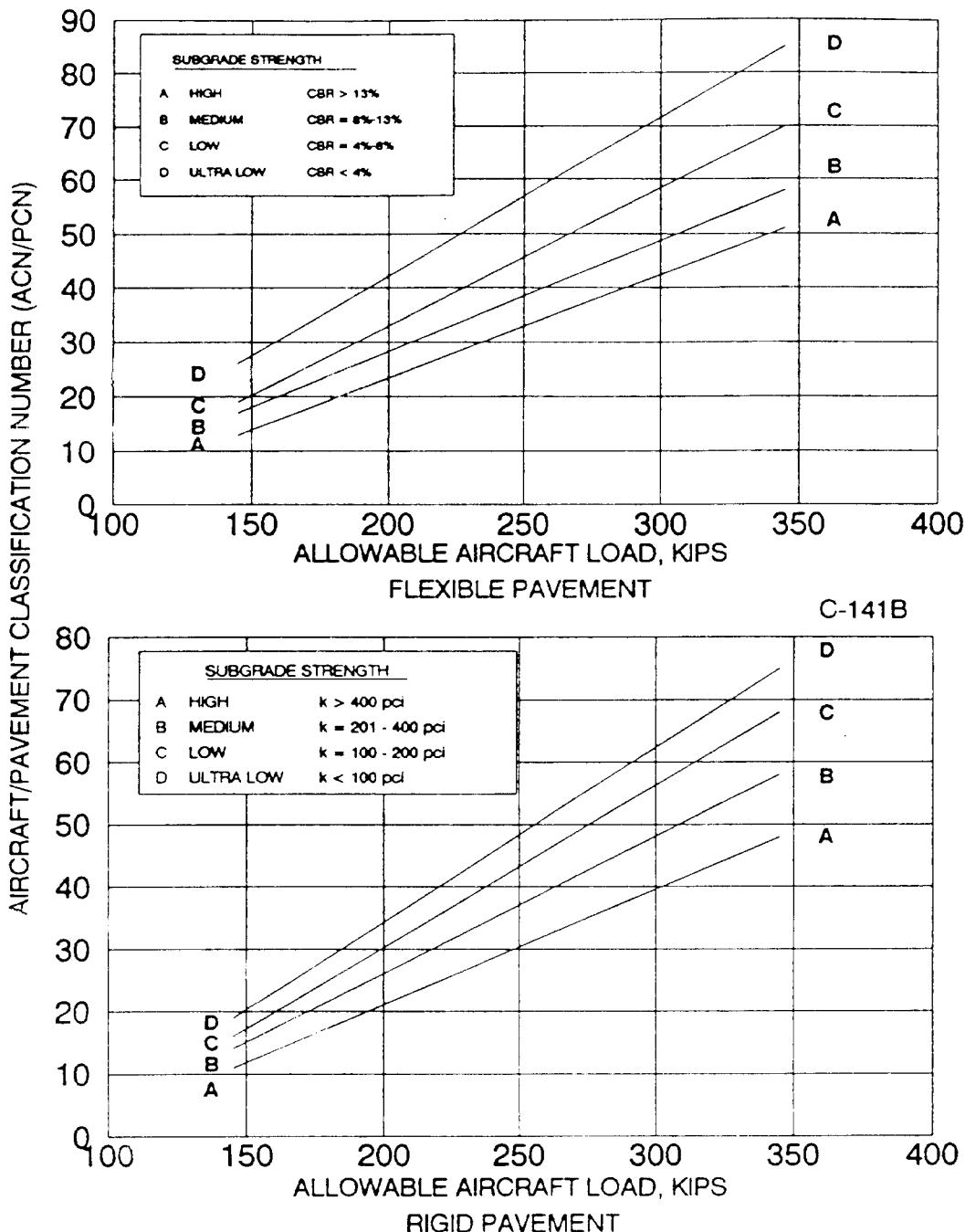


Figure A-48. C-141B, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer McDonnell Douglas

Aircraft Engine Manufacturer General Electric (CF6-50C2)

No. of Engines 3 Engine Rating 52,500 lb

Min. T/O Wt. 270.8 k-lb * Min. T/O Dist. @ Min. T/O Wt. 3,000 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 4,500 ft

Max. T/O Wt. Peace-Time 590.0 k-lb Max. T/O Wt. War-Time 590.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 9,000 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 10,300 ft

Min. Ldg. Wt. 320.0 k-lb Max. Ldg. Wt. 436.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 3,600 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,620 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Ultra Low D	High A	Medium B	Low C	Very Low D
320	20	23	27	32	24	28	33	44
436	32	38	45	52	39	43	51	69
590	48	57	68	79	58	64	75	102

Figure A-49. KC-10A, Extender

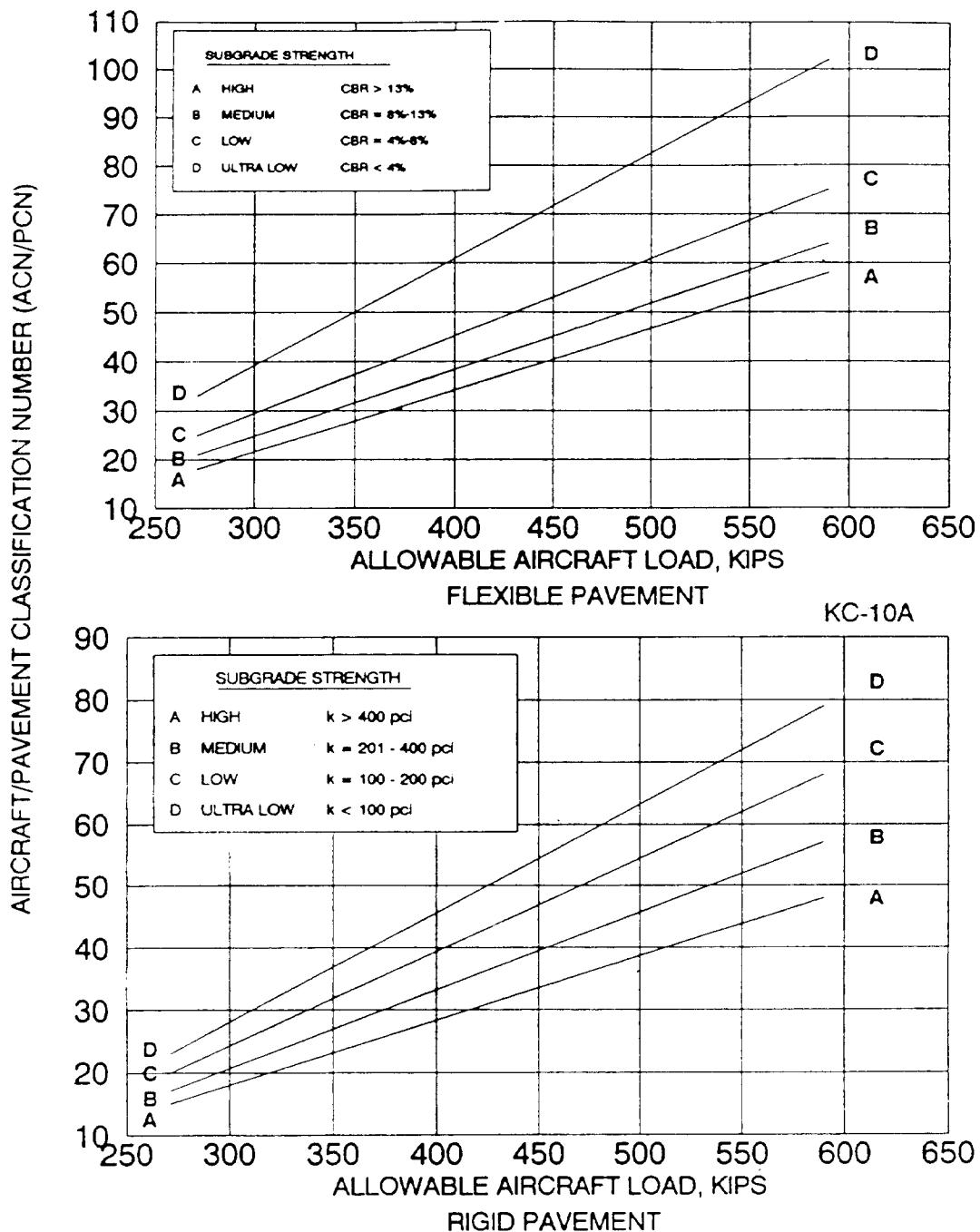


Figure A-50. KC-10A, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Boeing

Aircraft Engine Manufacturer General Electric (F103-GE-102)

No. of Engines 4 Engine Rating 62,500 lb

Min. T/O Wt. 440.0 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 836.0 k-lb Max. T/O Wt. War-Time 836.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time †

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. † Max. Ldg. Wt. 630.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. †

* Min. Ldg. Dist. @ Max. Ldg. Wt. †

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
					Very			
	High A	Medium B	Low C	Ultra Low D	High A	Medium B	Low C	Low D
630	33	39	47	54	38	42	50	65
836	46	55	66	76	52	58	71	92

Figure A-51. VC-25A, Air Force One

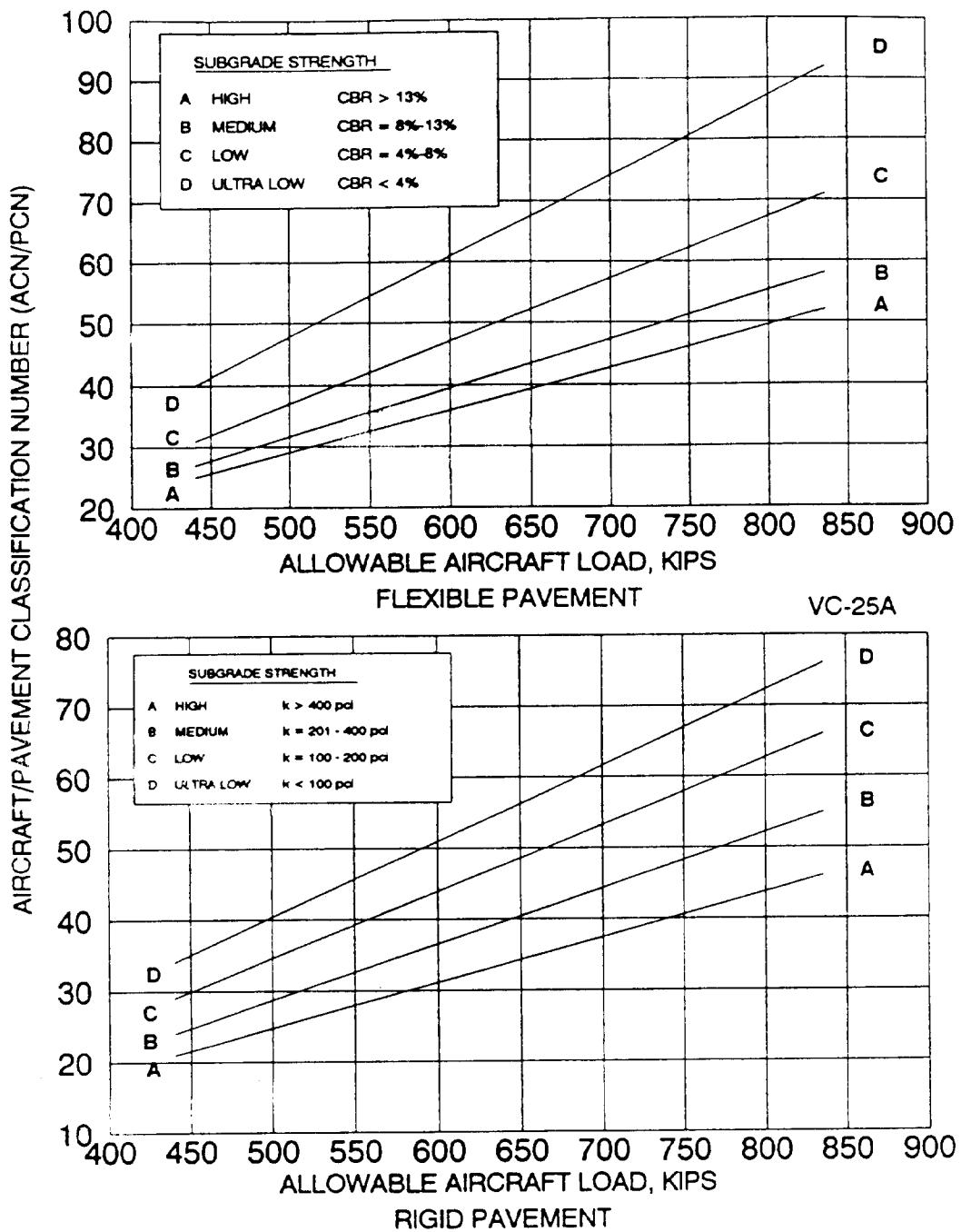


Figure A-52. VC-25A, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Boeing

Aircraft Engine Manufacturer Pratt and Whitney (TF33-PW-100A)

No. of Engines 4 Engine Rating 20,500 lb

Min. T/O Wt. 180.7 k-lb * Min. T/O Dist. @ Min. T/O Wt. 2,680 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 2,680 ft

Max. T/O Wt. Peace-Time 325.0 k-lb Max. T/O Wt. War-Time 325.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 6,540 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 7,670 ft

Min. Ldg. Wt. 180.7 k-lb Max. Ldg. Wt. 250.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 2,000 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,810 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	Ultra		Low		Very		Low	
	High A	Medium B	Low C	Low D	High A	Medium B	Low C	Low D
181	16	20	23	26	16	20	24	29
250	27	32	38	43	27	32	38	44
325	38	46	55	62	38	45	54	61

Figure A-53. E-3A STD., Sentry AWACS

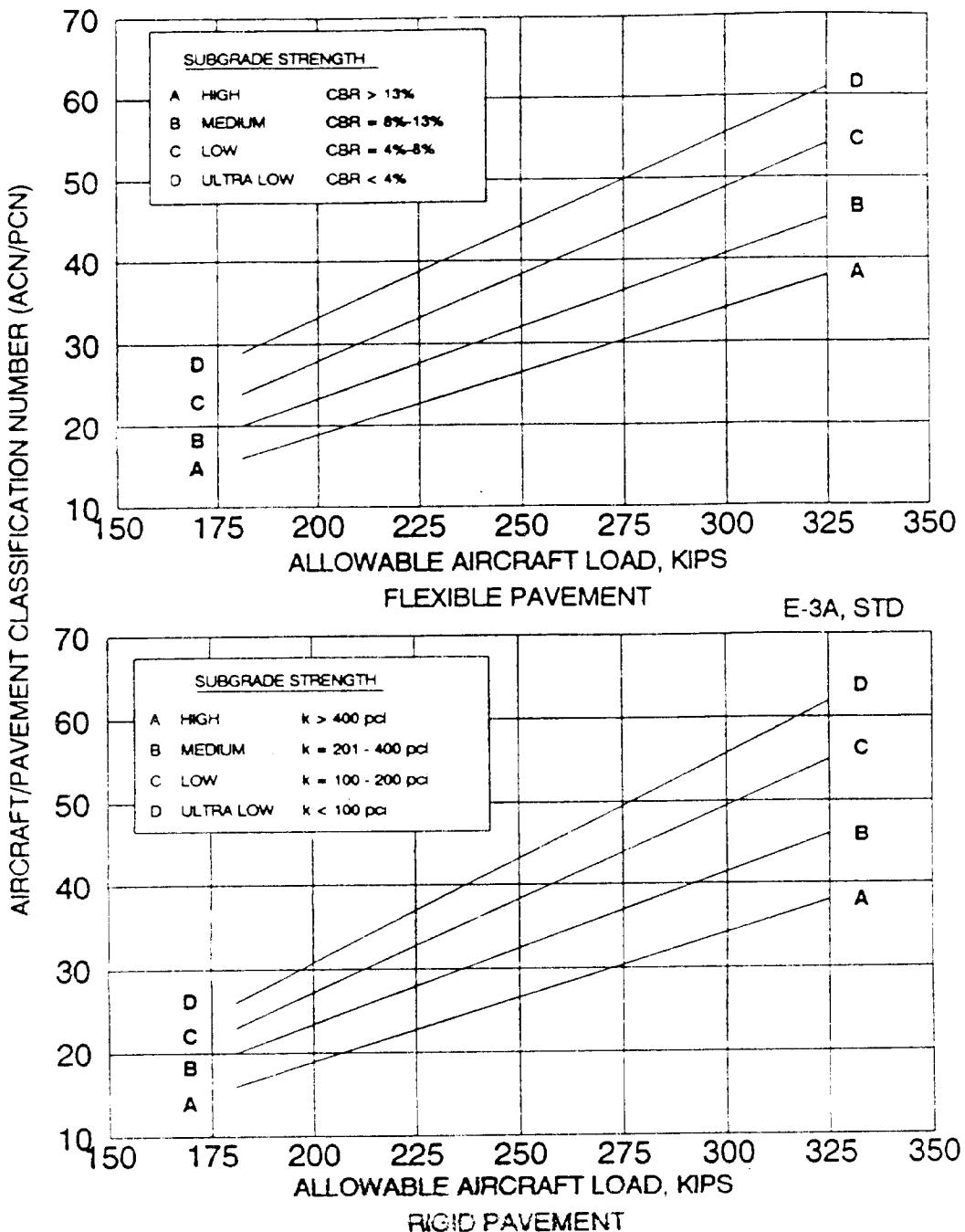


Figure A-54. E-3A(STD), ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Boeing

Aircraft Engine Manufacturer Pratt and Whitney (TF33-PW-100A)

No. of Engines 4 Engine Rating 20,500 lb

Min. T/O Wt. 186.1 k-lb * Min. T/O Dist. @ Min. T/O Wt. 2,900 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 3,000 ft

Max. T/O Wt. Peace-Time 325.0 k-lb Max. T/O Wt. War-Time 325.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 6,540 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 7,670 ft

Min. Ldg. Wt. 186.1 k-lb Max. Ldg. Wt. 250.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 2,100 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,810 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	Ultra		High A	Medium B	Low C	Low D	Very	
	High A	Medium B					Low C	Low D
186	18	20	24	28	17	21	25	30
250	27	32	39	44	26	32	39	45
325	38	46	55	62	38	45	54	61

Figure A-55. E-3B, Sentry AWACS

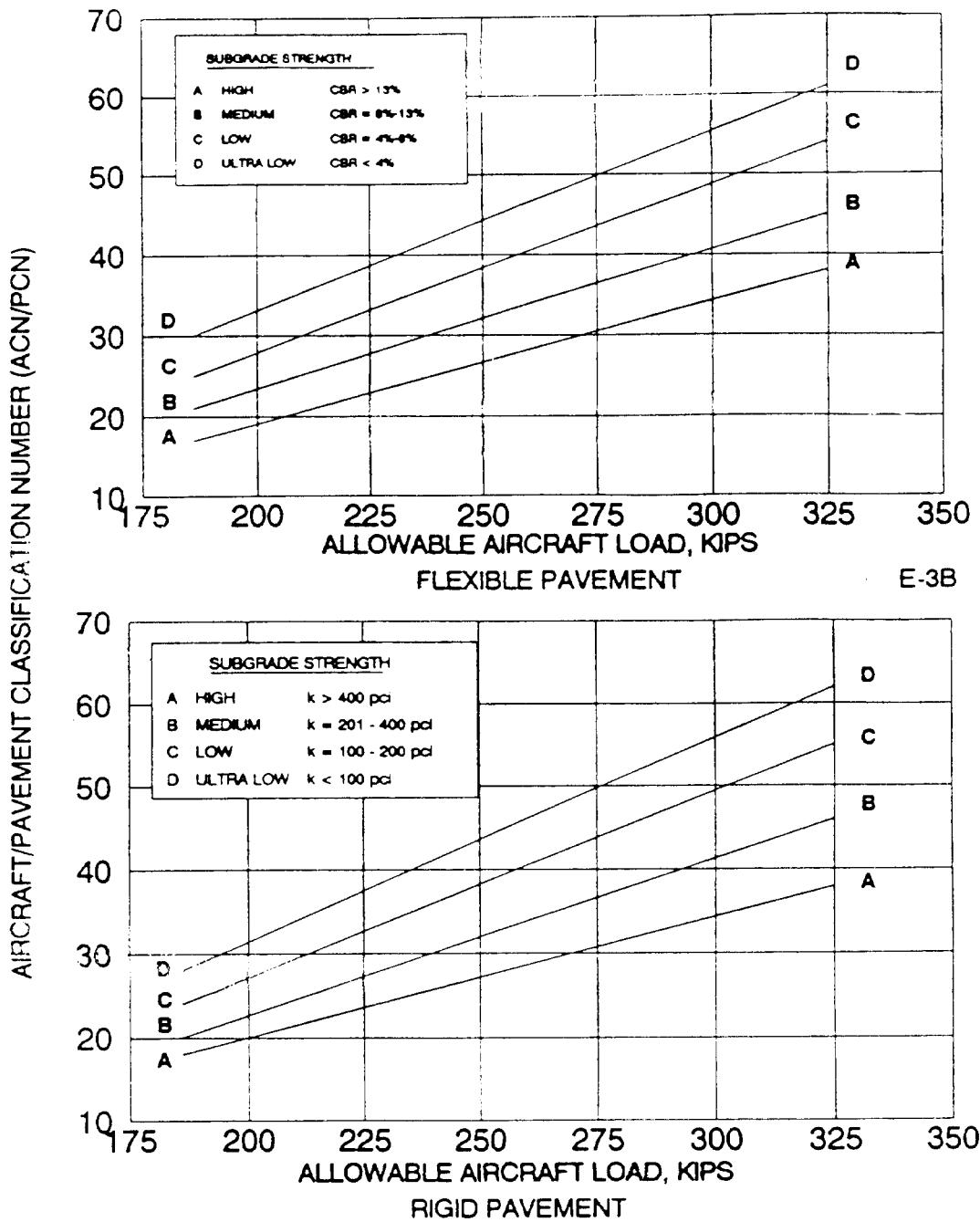


Figure A-56. E-3B, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Boeing

Aircraft Engine Manufacturer Pratt and Whitney (TF33-PW-100A)

No. of Engines 4 Engine Rating 20,500 lb

Min. T/O Wt. 186.9 k-lb * Min. T/O Dist. @ Min. T/O Wt. 2,950 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 3,050 ft

Max. T/O Wt. Peace-Time 325.0 k-lb Max. T/O Wt. War-Time 325.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 6,540 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 7,670 ft

Min. Ldg. Wt. 186.9 k-lb Max. Ldg. Wt. 250.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 2,100 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,810 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	Ultra				Very			
	High A	Medium B	Low C	Low D	High A	Medium B	Low C	Low D
187	18	21	24	29	17	21	25	30
250	27	32	38	44	26	32	38	44
325	38	46	55	62	38	45	54	61

Figure A-57. E-3C, Sentry AWACS

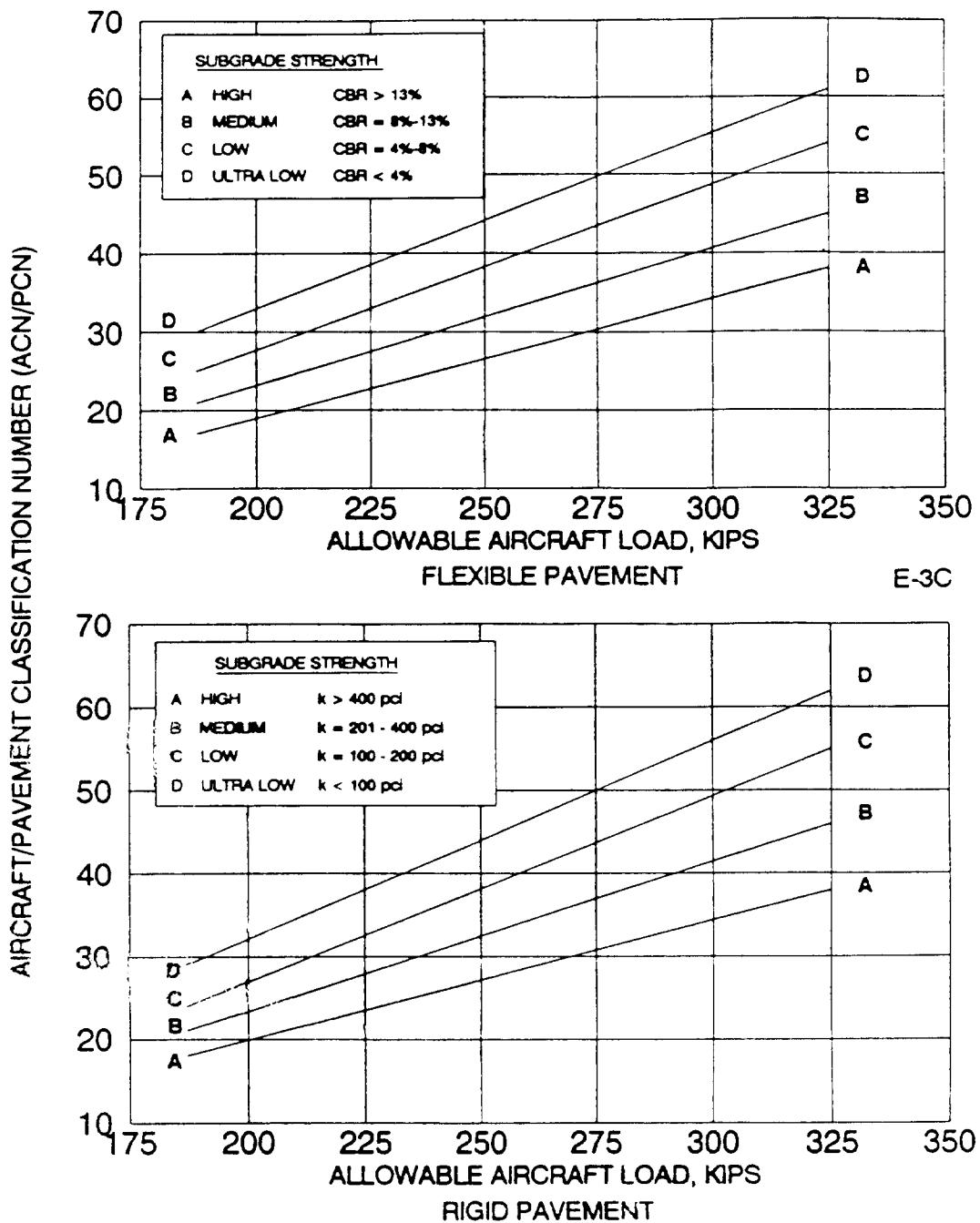


Figure A-58. E-3C, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Boeing

Aircraft Engine Manufacturer General Electric (CF6-50E2)

No. of Engines 4 Engine Rating 52,500 lb

Min. T/O Wt. 488.0 k-lb * Min. T/O Dist. @ Min. T/O Wt. 4,200 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 4,800 ft

Max. T/O Wt. Peace-Time 798.0 k-lb Max. T/O Wt. War-Time 798.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 7,900 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 9,000 ft

Min. Ldg. Wt. 485.0 k-lb Max. Ldg. Wt. 630.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 3,700 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,750 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High		Medium	Low	Ultra	High		Medium
	A	B	C	D	A	B	C	Very Low D
485	22	25	30	35	28	32	41	60
630	33	39	45	53	42	43	62	90
798	45	55	63	73	57	58	85	125

Figure A-59. E-4B, NEACP

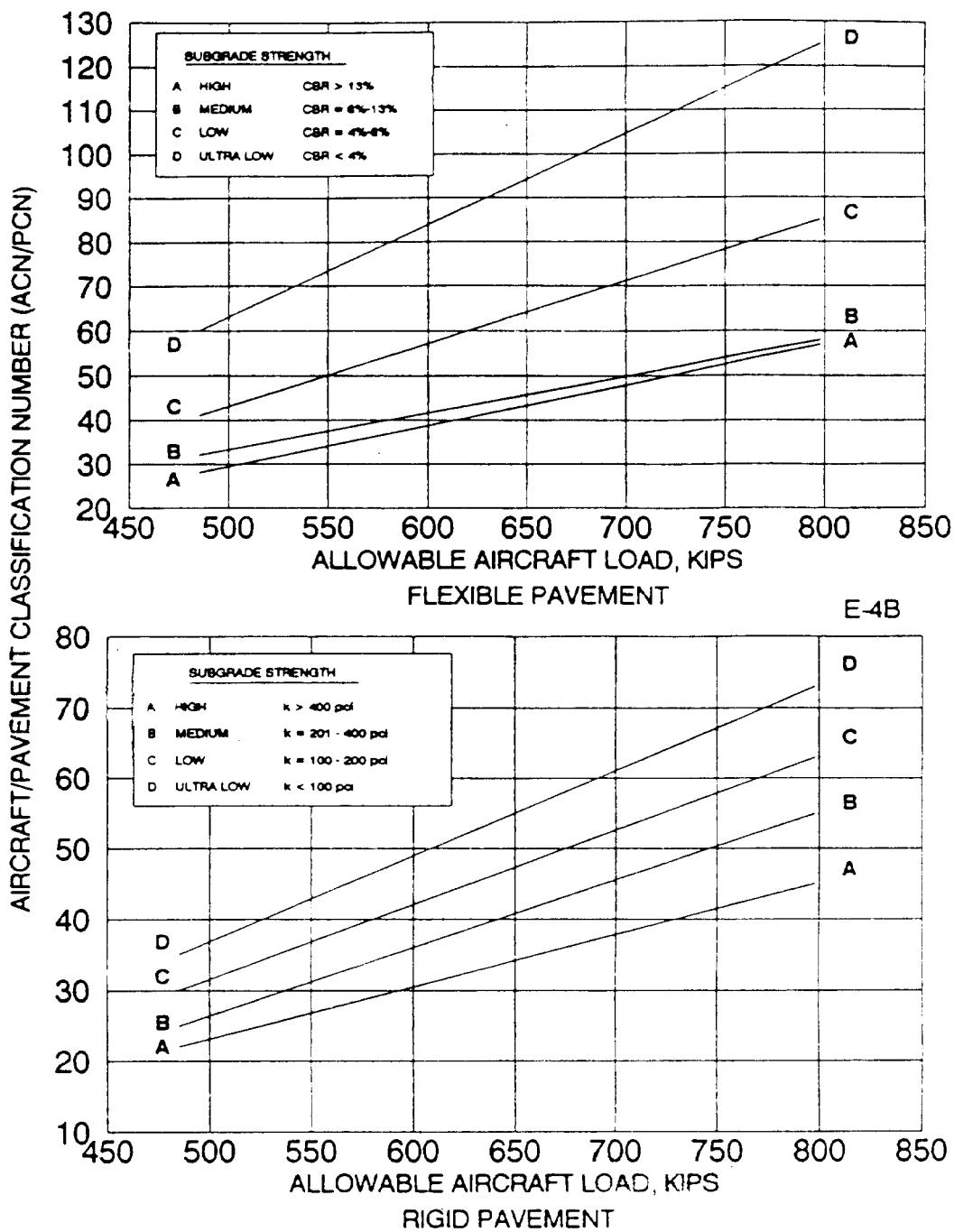


Figure A-60. E-4B, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Boeing

Aircraft Engine Manufacturer Pratt and Whitney (JT3D-3BET)

No. of Engines 4 Engine Rating 17,400 lb

Min. T/O Wt. 180.0 k-lb * Min. T/O Dist. @ Min. T/O Wt. 1,900 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 3,800 ft

Max. T/O Wt. Peace-Time 336.0 k-lb Max. T/O Wt. War-Time †

* Min. T/O Dist. @ Max. T/O Wt. War-Time †

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 180.0 k-lb Max. Ldg. Wt. 247.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. †

* Min. Ldg. Dist. @ Max. Ldg. Wt. 4,350 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Low D	High A	Medium B	Low C	Very Low D
180	19	22	26	29	21	22	26	33
247	29	33	40	45	31	34	41	52
336	41	49	58	66	44	49	60	77

Figure A-61. EC-18B, ARIA